## BAAQMD Title V Permit 6 Month Monitoring Report

From 7/1/2014 to 12/31/2014

	A0010 Chevron Richmond Refinery	TOTAL TOT
	Facility Address: 841 Chevron Way	
	City, Richmond	
	Zip Code: 9401.	94802-0272
Inoperable monitors as defined by BAAQMD Regulations 1-522 and 1-523 for the reporting period are summarized below:	22 and 1-523 for the reporting period are summa	arized below:
Started Stopped	Abatement Enission Source (S#) Device (A#) Point (P#)	Fuel Opacity/ Wind Gauge CEM GLM Gas Parametri NOx SO2 CO H2S TRS NH3 O2 CO2 H2O LTA Lead Steam Flow Wind Dir. Speed pH Temp. VOC. Press.
7/9/2014 5:33 AM 7/10/2014 1:03 PM 🖸  Discovered On: 7/10/2014	S4070 ·	
	The O2 analyzer at F-1100A began to malfunction on Wednesday, 7/9/14 at 0533 hours. Repairs completed and successful calibration occurred on 7/1	eted and successful calibration occurred on 7/10/14 at 1303 hrs.
7/15/2014 7:54 AM 7/16/2014 10:03 AM S Discovered On: 7/16/2014	S406i	
	A STATE OF THE PROPERTY OF THE	
7/31/2014 5:05 AM 8/1/2014 1:22 PM G	S4285	
- =	2014 at 0505 hrs. The last good calibration occurred 7/3	The last good calibration occurred 7/30/2014 at 1543 hrs. Repairs were made to the SO2 analyzer and a successful calibration occurred 8/1/2014 at 1322 hrs.
0 1	\$4161	
<b>DISCOVERED UNI:</b> 8/1/2114  Event Description: The F-500 (S-4161/4162/4163) NOx & O2 analy	The F-500 (S-4161/4162/4163) NOx & O2 analyzers began to fail intermittently on 8/6/2014 at 1230 hrs. Repairs complete and successful calibration	rs. Repairs complete and successful calibration occurred on 8/7/2014 at 1723 hours.
	S4285	
Event Description: The F-300 SO2 analyzer began to fail on 8/9/2014	The F-300 SO2 analyzer began to fail on 8/9/2014 at 2038 hrs. The last good calibration occurred 8/9/2014 at 0500 hrs.	914 at 0500 hrs. Repairs complete and successful calibration occurred on 8/11/2014 at 1519 hours.
8/20/2014 6:28 AM 8/21/2014 1:25 PM Siscovered On: 8/21/2014	\$4285	
Event Description: The SO2 analyzer began to malfunction on 8/20/2	2014 at 0628 hrs. The last good calibration occurred 8/2	The SO2 analyzer began to malfunction on 8/20/2014 at 0628 hrs. The last good calibration occurred 8/20/2014 at 0500 hrs. Repairs were made to the SO2 analyzer and a successful calibration occurred 8/21/2014 at 1325 hrs.
8/26/2014 5:00 AM 8/27/2014 3:22 PM	S4285	
Event Description: The SO2 analyzer began to malfunction on 8/26/2	2014 at 0500 hrs. The last good calibration occurred 8/2	The SO2 analyzer began to malfunction on 8/26/2014 at 0500 hrs. The last good calibration occurred 8/25/2014 at 0535 hrs. Repairs were made to the SO2 analyzer and a successful calibration occurred 8/27/2014 at 1522 Hrs.

Started Stopped	Source (S#) Abatement Emission Device (A#) Point (P#)	CEM GLM Gas Parametri NOx SO2	CO H2S TRS NH3 O2 CO2 H2O LTA	Lead Steam Flow Wind Dir. Speed	Wind  Dir. Speed pH Temp. VOC.	np. VOC, Press
8/30/2014 12:27 PM 9/2/2014 1:35 PM .	· \$4285					
=	14 at 1227 hrs. The last good calibration occurred 8	30/2014 at 0500 hrs. Repairs were made to	the SO2 analyzer and a successful calibration occur	rred 9/2/2014 at 1335 hrs	ò	
8/30/2014 5:00 AM 9/2/2014 1:35 PM SI Discovered On: 9/2/2014	\$4285	<b>(S)</b>	S .			
Event Description: The O2 analyzer began to malitunction on 8/30/2014 at 0500 hrs. The last good calibration occurred 8/29/2014 at 0500 hrs. Repairs were made to the	4 at 0500 hrs. The last good calibration occurred 8/	9/2014 at 0500 hrs. Repairs were made to t	the O2 analyzer and a successful calibration occurred 9/2/2014 at 1335 hrs.	d 9/2/2014 at 1335 hrs.		
9/26/2014 1:56 AM 9/29/2014 9:39 AM	\$4059					
Event Description: The NOx analyzer at F-247 began to malfunction on 09/26/14 at 0156 hrs. The last good calibration occurred 09/25/14 at 0450 hrs. Repairs were mad	n 09/26/14 at 0156 hrs. The last good calibration oc	urred 09/25/14 at 0450 hrs. Repairs were n	nade to the NOx analyzer and a successful calibration occurred 09/29/14 at 0939 hrs	on occurred 09/29/14 at 0	)939 hrs.	
10/8/2014 2:09 PM 10/10/2014 9:44 AM  **Discovered On: 10/14/2014	\$4132					
Event Description: On 10/8/2014 the #4 Boiler had first fires started prior to placing the NOx and O2 analyzers in service. The analyzers were placed back into service an	ior to placing the NOx and O2 analyzers in service.	The analyzers were placed back into service	and successfully calibrated on 10/10/2014 at 0944 hrs	hrs.		
10/30/2014 11:36 AM 10/31/2014 4:56 PM S 10/30/2014 10/30/2014	S4061					
	NHT's F-410 (37F10718) began going bad.					
Repairs were made and meter began funtioning normally again on 10/31/2014 at 1656 hrs	nally again on 10/31/2014 at 1656 hrs					
Discovered On: 11/24/2014 SAD Anni Discovered On: 11/24/2014 SAD Anni To malfunction on 11/20/14 at 2051 has The last good calibration occurred on 11/20/14 at	function on 11/20/14 at 20\$1 hrs. The Last good cal	hration occurred on 11/20/14 at 0600 hr				
Repairs were made and F-1100A was successfully calibrated on 11/26/14 at 0905 hrs	alibrated on 11/26/14 at 0905 hrs.					
11/23/2014 4:41 AM 11/25/2014 12:41 PM  Discovered On: 11/24/2014	\$4283					
Event Description: The NOx and O2 analyzer at 4 Rheniformer West began to malfunction on 11/23/14 at 0441 hrs. The last good calibration occurred on 11/23/14 at 0400 hrs.	began to malfunction on 11/23/14 at 0441 hrs. The l	st good calibration occurred on 11/23/14 at	0400 hrs.			
Repairs were made and 4 Rhen West was successfully calibrated on 11/25/14 at 1214 hrs	lly calibrated on 11/25/14 at 1214 hrs.					
12/9/2014 9:20 AM · 12/10/2014 3:52 PM  Discovered On: 12/10/2014	\$4135					
_	rs at Boiler#7 began to malfunction. The last good o	alibration occurred on 12/9/14 at 0500 hrs.				
Repairs were made and Boiler #7 was successfully calibrated on 12/10/14 at 1552 hrs	calibrated on 12/10/14 at 1552 hrs.					
12/9/2014 10:02 AM 12/11/2014 4:41 PM  Discovered On: 13/11/2014	\$4352					
Η.	n to malfunction on 12/9/14 at 1002 hrs. The last go	od calibration occurred on 12/9/14 at 0400 ł	irs.			
Repairs were made and a successful calibration occurred on 12/11/2014 at 1641 hrs	arred on 12/11/2014 at 1641 hrs.					

Wednesday, January 28, 2015

Started Stopped		Source (S#)	Abatement Device (A#)	Emission Point (P#)	Fuel Opacity/ Opacity/ Wind Wind Dir. Speed pH Temp. VOC. Press.
12/12/2014 4:30 AM 12/15/2014 3:55 PM Discovered On: 12/15/2014		S4352			ran
Event Description: On 12/12/2014 at 0430 hrs, the CO analyzer at Cogen 2000 began to malfunction. Repairs were made and CO analyzer was successfully calibrated at	zer at Cogo	1 2000 began to m	alfunction. Repai	rs were made and	d CO analyzer was successfully calibrated at 1555 hrs.
12/18/2014 6:36 PM 12/23/2014 2:44 AM  **Discovered On: 12/22/2014  Event Description: The South Isomax Flare Water Seal Leve	l Indicator	S6012	on on 12/18/2014	ar 1836 hrs Rei	nairs were made and the indicator becam working property on 12/72/14 at 0244 hours
Event Description: The South Isomax Flare Water Seal Level Indicator began to malfunction on 12/18/2014 at 1836 hrs. Repairs were made and the indicator began work	I Indicator !	egan to malfuncti	on on 12/18/2014	at 1836 hrs. Rep	pairs were made and the indicator began working properly on 12/23/14 at 0244 hours.
12/19/2014 2:02 AM 12/20/2014 2:30 PM Discovered On: 12/22/2014		S4171			
Event Description: On 12/19/2014 at 0202 nrs, the NOX anal	yzer at F-50	5 (360E) began to	mailunction. In	e last good calibr	Event Description: On 12/19/2014 at 0202 frs, the NOX analyzer at re-500 (500E) began to manufaction. The last good cambration occurred on 12/18/14 at 0500 frs. Repairs were made and r-350 (360E), was successfully calibrated on 12/20/14 at 1430 frs.
12/20/2014 6:30 AM 12/22/2014 11:00 AM	<b>⊻</b> zer at F-710	S4167 began to malfuncti	on. The last succ	essful calibration	☑ □ □ □ ☑ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
Repairs were made and F-710 was successfully calibrated on 12/22/14 at 1100 hrs.	sfully calib	ated on 12/22/14:	it 1100 hrs.		
12/21/2014 8:10 AM 12/23/2014 8:34 AM <b>Discovered On:</b> 12/23/2014  Event Description: On 12/21/14 at 08:10 AM, the North Isot	max flare wa	S6013 Her seal indicator b	egan to malfuncti	on. Repairs wer	12/21/2014 8:10 AM 12/23/2014 8:34 AM 🕝 S6013
12/23/2014 10:20 AM 12/31/2014 2:19 PM  Discovered On: 12/24/2014  Event Description: On 12/23/14 at 1020 hrs, the LSFO flare	water scal ii	S6010 ndicator began to n	nalfunction. Repa	iirs were made ar	12/23/2014 10:20 AM 12/31/2014 2:19 PM 🔽 S6010

## Certification Statement

I certify under penalty of law that based on the information and belief formed after reasonable inquiry, the vatements and information in this document and in all attachments and only materials are true, accurate, and complete.

Kory Judd

of Responsible Official

Print Name

General Manager Richmond Refinery 28 Jan 2015

Title